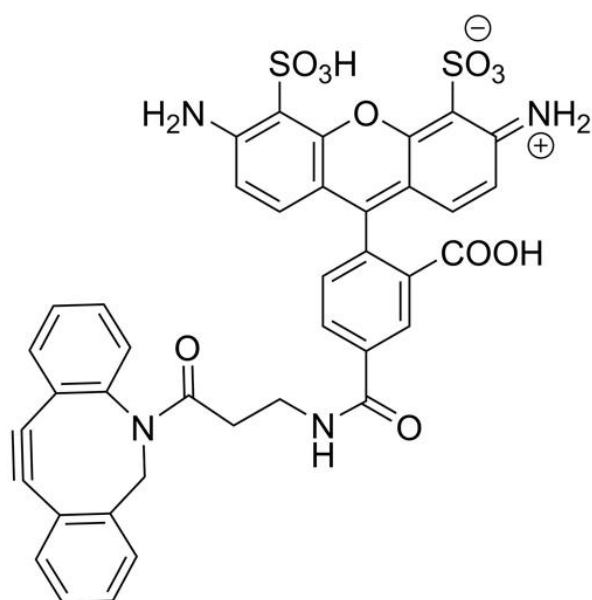




## **AZDYE 488 DBCO**

**SKU:** CCT-1278



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## **DESCRIPTION**

AZDye™ 488 DBCO is a water-soluble, green-fluorescent probe for copper-less detection of azide-tagged biomolecules. In application where the presence of copper is a concern AZDye™ 488 DBCO is an ideal alternative to copper requiring fluorescent alkynes.

AZDye™ 488 is a bright, and highly photostable, green-fluorescent probe optimally excited by the 488 nm laser line. This probe is water-soluble and its fluorescence is pH independent over a wide pH range. The brightness and photostability of blue dyes are best suited to direct imaging of low-abundance targets. AZDye™ 488 is structurally identical to Alexa Fluor® 488. Its absorption/emission spectra is a perfect match to spectra of many other fluorescent dyes based on sulfonated rhodamine 110 core, including DyLight® 488, CF® 488 Dye and Alexa Fluor® 488.

**For research use only. Not intended for therapeutic or diagnostic use in animals or humans.**



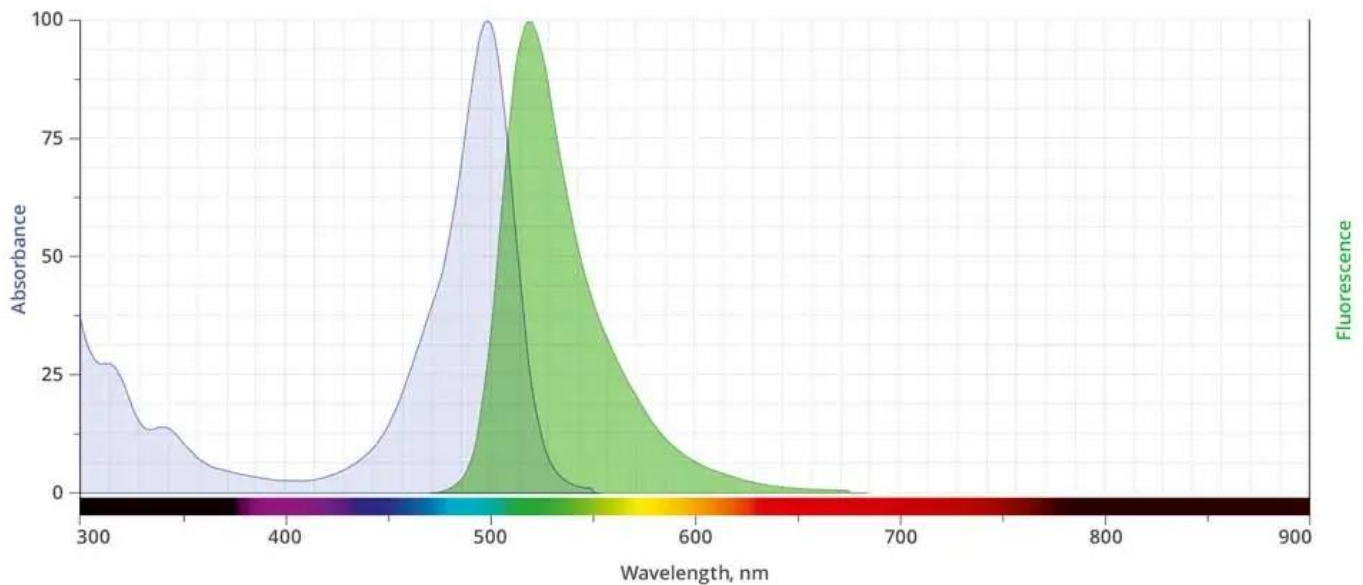
DyLight<sup>®</sup> and Alexa Fluor<sup>®</sup> are registered trademarks of Thermo Fisher Scientific. CF<sup>®</sup> Dye is a registered trademarks of Biotium Inc.

## SPECIFICATIONS

<b>CAS Number</b>	N/A
<b>Molecular Weight</b>	792.12 (protonated)
<b>A260 Correction Factor</b>	0.35
<b>A280 Correction Factor</b>	0.19
<b>Appearance</b>	Orange to light red solid
<b>Extinction Coefficient</b>	73,000
<b>Purity</b>	>95% (HPLC)
<b>Unit Size</b>	1 mg, 5 mg, 25 mg
<b>Solubility</b>	Water, DMSO, DMF
<b>Storage Instructions</b>	-20°C. Desiccate
<b>Spectrally Similar Dyes</b>	FAM, Alexa Fluor <sup>®</sup> 488, Atto™ 488, CF <sup>®</sup> 488A Dye, DyLight <sup>®</sup> 488
<b>Laser Line</b>	488 nm
<b>Excitation/Emission Maximum</b>	494/517 nm
<b>Shipping Conditions</b>	Ambient temperature
<b>Shipping Instructions</b>	Ambient temperature

## ABS/EM SPECTRA

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



## SELECTED REFERENCES

1. Loebel, C., *et al.* (2022). Metabolic labeling of secreted matrix to investigate cell-material interactions in tissue engineering and mechanobiology. *Nat Protoc.*, **10.1038**, Online ahead of print. [[PubMed](#)]
2. Lancien, M., *et al.* (2020). A snake toxin as a theranostic agent for the type 2 vasopressin receptor. *Theranostics.*, **10 (25)**, 11580-11594. [[PubMed](#)]
3. Simon P. Wisnovsky, *et al.* (2020). Metabolic precision labeling enables selective probing of O-linked N-acetylgalactosamine glycosylation. *PNAS*, **117 (41)**, 25293-25301. [[PNAS](#)]
4. Loebel, C., *et al.* (2020). Metabolic Labeling to Probe the Spatiotemporal Accumulation of Matrix at the Chondrocyte-Hydrogel Interface. *Adv. Funct. Mater.* [[PubMed](#)]
5. Loebel, C., *et al.* (2019). Local nascent protein deposition and remodelling guide mesenchymal stromal cell mechanosensing and fate in three-dimensional hydrogels. *Nature Materials*, **18**, 883-891. [[PubMed](#)]

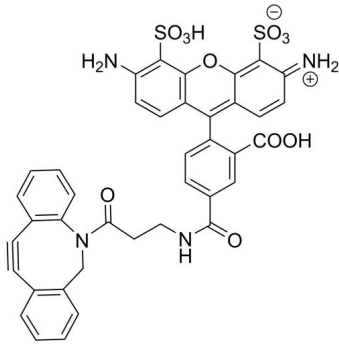
## DOCUMENTS

- [Safety Data Sheet](#)
- [Download CoA](#)
- [Datasheet](#)

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## GALLERY IMAGES



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